

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

Work Order ID 164306

Monday, July 17, 2017 10:50:31 AM

164306

Page 2

Item ID: D350-591-215

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Heli-Access-Step™ LH - Low Gear, Short Step, Aerazur Float Compatible

Start Date: 7/24/2017 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 8/3/2017 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

280

QC4- 100% Inspect kits for completeness

0.00

280

QC

Memo

0.03

Quality Control

DAS
30
JUL 30 2017

290

Identify as per dwg & Stock Location: _____

0.00

290

Packaging

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D350-591-215
Location: FG038DAS
28
9-89

JUL 31 2017

300

QC21- Final Inspection - Work Order Release

0.00

300

QC

Memo

0.10

Quality Control

DAS
21
9-89

AUG 01 2017

DAS
21
9-89
AUG 01 2017

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Picklist Print

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Page 1

Work Order ID: 164306

164306

Parent Item: D350-591-215

D350-591-215

Parent Item Name: Heli-Access-Step™ LH - Low Gear, Short Step, Aerazur Float Compatible

Start Date: 7/24/2017

Required Date: 8/3/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev: A 02.10.17 New issue KJ/RF
IPP Rev:B 06-06-19 Added D2732-030 AS PER DSI9294 JLM
IPP Rev:C 06-06-27 Revised as per DSI9340 JLM IPP REV:D
16.03.16 IIN REV.H DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN4-16A	DAS	Purchased	No			270	Each	12.0000	4	4			
AN4-16A	38								**				
Bolt	9-89												
				<u>Location</u>				<u>Loc Qty</u>					
				FG				5					
				121541				5					
				ST343				7					
				M137507				7					
D3168-041	DAS	Manufactured	No			270	Each	0.0000	1	1			
D3168-041	38								**				
Step Assembly, Low Short LH	9-89												
D2230-3	DAS	Manufactured	No			270	Each	104.0000	2	2			
D2230-3	38								**				
Mounting Lug	9-89												
				<u>Location</u>				<u>Loc Qty</u>					
				FG				4					
				109344				4					
				ST521				100					
				158456				20					
				162754				80					

DAS

6

9-89

JUL 20 2017

28

9-89

138040

DAS

6

28

9-89

JUL 31 2017

DAS

6

9-89

JUL 20 2017

DAS

28

9-89

2

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Work Order ID: 164306

164306

Parent Item: D350-591-215

D350-591-215

Parent Item Name: Heli-Access-Step™ LH - Low Gear, Short Step, Aerazur Float Compatible

Start Date: 7/24/2017

Required Date: 8/3/2017

Start Qty: 1.00

Required Qty: 1.00

D2618 Manufactured No 270 Each 62.0000 2 2

D2618

Bushing

DAS
38
9-89

**

JUL 20 2017

DAS
28
6 9-89
9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST008A	62	
160408	1	
162353	11	
162901	50	

2

D2732 Manufactured No 270 f 416.1983 1 1

D2732

Rubber Cushion (\$per foot)

DAS
38
9-89

**

JUL 20 2017

DAS
28
6 9-89
9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST412	416.1983094	
150042	2.09830942	
158449	414.1	

16298

(D2732-030) CUT (4) AT 3.00" PER KIT

D3235-1 Manufactured No 270 Each 151.0000 2 2

D3235-1

Mounting Lug

DAS
38
9-89

**

JUL 20 2017

DAS
28
6 9-89
9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST522	50	
162413	50	
ST525A	101	
158458	1	
162757	100	

2

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Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Work Order ID: 164306

164306

Parent Item: D350-591-215

D350-591-215

Parent Item Name: Heli-Access-Step™ LH - Low Gear, Short Step, Aerazur Float Compatible

Start Date: 7/24/2017

Required Date: 8/3/2017

Start Qty: 1.00

Required Qty: 1.00

AN3-35A	Purchased	No	270	Each	72.0000	2	2	DAS 6 9-89	DAS 28 9-89
AN3-35A									
Bolt									

Location	Loc Qty	Loc Code
FG	10	
122800	10	
ST348	62	
M137495	12	
M137886	50	

AN4-15A	Purchased	No	270	Each	86.0000	4	4	DAS 6 9-89	DAS 28 9-89
AN4-15A									
Bolt									

Location	Loc Qty	Loc Code
GA	10	
120449	10	
ST343	76	
m137820	76	

AN5-36A	Purchased	No	270	Each	100.0000	2	2	DAS 6 9-89	DAS 28 9-89
AN5-36A									
Bolt									

Location	Loc Qty	Loc Code
ST336	100	
m137820	50	
m137963	50	

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Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
WORK ORDER										Lead hand / Supervisor Approval Verification															
												QC / QA Coordinator Approval													
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐				Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐				Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐				Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐											
OTHER : _____																									

Picklist Print

Monday, July 17, 2017 10:50:48 AM

Work Order ID: 164306

164306

Parent Item: D350-591-215

D350-591-215

Parent Item Name: Heli-Access-Step™ LH - Low Gear, Short Step, Aerazur Float Compatible

Start Date: 7/24/2017

Required Date: 8/3/2017

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0363J

Purchased

No

270

Each

1,362.000

4

4

NAS1149D0363.I

DAS
38
9-89

**

DAS

JUL 20 2017 6 89

DAS
28
9-89

Washer

Location

Loc Qty

Loc Code

GA

33

m134055

13

m137164

20

ST263

1329

m137587

329

m137963

1000

NAS1149D0463J

Purchased

No

270

Each

3,005.000

12

12

NAS1149D0463.I

DAS
38
9-89

**

DAS

JUL 20 2017 6 89

DAS
28
9-89

Washer

Location

Loc Qty

Loc Code

GA

560

M135056

40

M137699

520

ST260a

600

M137988

600

ST263

1845

M137371

445

M137699

1400

NAS1149D0563J

Purchased

No

270

Each

1,352.000

4

4

NAS1149D0563.I

DAS
38
9-89

**

DAS

JUL 20 2017 6 89

DAS
28
9-89

Washer

Location

Loc Qty

Loc Code

GA

36

m135774

36

ST263

1316

m137587

616

m137820

700

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By _____																	
								Lead hand / Supervisor Approval Verification																	
								QC / QA Coordinator Approval																	
Root Cause				FAULT CATEGORY																					
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			OTHER : _____																	

Picklist Print

Monday, July 17, 2017 10:50:48 AM

Page 5

Work Order ID: 164306

164306

Parent Item: D350-591-215

D350-591-215

Parent Item Name: Heli-Access-Step™ LH - Low Gear, Short Step, Aerazur Float Compatible

Start Date: 7/24/2017

Required Date: 8/3/2017

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

270

Each

1,235.000

2

2

MS21042I 3 ^{DAS}
Nut ³⁸
⁹⁻⁸⁹

**

^{DAS}
⁶
⁹⁻⁸⁹

^{DAS}
²⁸
⁹⁻⁸⁹

JUL 20 2017

Location

Loc Qty

Loc Code

FP001

79

m135945

79

GA

376

m134360

102

M136665

274

OVER007

500

m137988

500

ST303

280

m137886

280

2

^{DAS}
⁶
⁹⁻⁸⁹

JUL 20 2017

MS21042L4

Purchased

No

270

Each

2,364.000

6

MS21042I 4 ^{DAS}
Nut ³⁸
⁹⁻⁸⁹

**

^{DAS}
²⁸
⁹⁻⁸⁹

Location

Loc Qty

Loc Code

FP001

10

m133363

10

GA

11

m135058

11

OVER007

1000

m137988

1000

ST303

1343

m137402

327

m137544

16

m137680

1000

6

Monday, July 17, 2017 10:50:48 AM

Shop Packet Print

Page 5

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Cross tube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>								Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																					
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Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																																																												
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																																																												
Large Fab ☐	Composite ☐	Supplier ☐																																																													
Date : _____		Step #:		QTY Effective :				MRB (QSI042) Approval																																																							
Description Work Order Deviation				Disposition				Completed By																																																							
								Lead hand / Supervisor Approval Verification																																																							
								QC / QA Coordinator Approval																																																							
Root Cause		FAULT CATEGORY																																																													
Environment ☐	Design ☐	Doc/Data ☐	Equip/Tooling ☐	Handling/Pre ☐	Material ☐	Internal Transport ☐	Tribal Knowledge ☐	LOA ☐	Substation ☐	Past Expiry Date ☐	Misidentified ☐	No Re-verification ☐	Operator ☐	Offset/Setup ☐	Supplier ☐	Training ☐	Use for Testing ☐	Poor Information ☐	Rushing ☐	Product Improvement ☐	Process Improvement ☐	Manufacturing Process ☐	Past Due ☐	Pressure/Forced ☐	Bending ☐	Centre Not Concentric ☐	Cracks ☐	Crimp/Kink/Ripple/Wave ☐	Cuffs ☐	Crushing ☐	Heat Treat ☐	Wave/Twist in Tube ☐	Marks/Chatter ☐	Temperature/Cure ☐	Set-up ☐	BOM/Route ☐	Broken/Damage/Defect ☐	Inspection Incomplete/Unqualified ☐	Contamination ☐	Countersink ☐	Cut Too Short ☐	Instructions Incomplete/Unclear ☐	Drill Holes ☐	Power Loss/Surge ☐	Folio/Program ☐	Grain ☐	Weld ☐	Wrong Stock Pulled ☐	Out of Sequence ☐	Off-set ☐	Mislabeled ☐	Fit/Function ☐	Misaligned/off center ☐	Positioned Wrong ☐	Outside Dimensions ☐	Over/Under tolerance ☐	Part Incorrect ☐	Part Lost/Missing ☐	Part Moved ☐	Drawing ☐	Finish ☐	Misread ☐	Turning Sequence ☐
OTHER : _____																																																															

Picklist Print

Page 6

Monday, July 17, 2017 10:50:48 AM

Work Order ID: 164306

164306

Parent Item: D350-591-215

D350-591-215

Parent Item Name: Heli-Access-Step™ LH - Low Gear, Short Step, Aerazur Float Compatible

Start Date: 7/24/2017

Required Date: 8/3/2017

Start Qty: 1.00

Required Qty: 1.00

MS21042L5

Purchased

No

270

Each

661.0000

2

2

MS21042L5

Nut

DAS
38
9-89

**

DAS
6
9-89

JUL 20 2017

Location

Loc Qty

Loc Code

GA

12

m127813

12

OVER007

200

m137963

200

ST303

449

m137478

4

m137587

445

2

DAS
28
9-89

Monday, July 17, 2017 10:50:48 AM

Shop Packet Print

Page 6

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date : _____		Step # : _____		QTY Effective : _____				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval			
Description Work Order Deviation				Disposition							
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐									
		OTHER : ☐									

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D350-591 REV. G OR EARLIER
AND
INSTRUCTIONS OF CONTINUED AIRWORTHINESS ICA-D350-591 REV. 2 OR EARLIER
REF CANADIAN STC: SH92-6
REF FAA STC: SH967NE

For D350-591-213/-214/-215/-216 steps, customers have the option of installing D2732-030 cushion under the clamps to accommodate varying cross-tube diameters and to improve fit, as indicated in Installation Instructions D350-591. This Service Instruction adds longer AN4-16A bolts to the parts list to allow installation of these cushions. See Figure 1 on sheet 2 of this service instruction for reference. Installation of the D2856-400-720 Abrasion Strips per Installation Instructions D350-591 is not required when the cushions are installed.

For D350-591-213/-214/-215/-216 steps at CHG 003, the parts list of D350-591 Rev. G and ICA-D350-591 Rev. 2 is amended as follows:

ADD:

Qty -213	Qty -214	Qty -215	Qty -216	Part Number	Description
X				D350-591-213	Heli-Access-Step ™, Short Step – High Skid, LH
	X			D350-591-214	Heli-Access-Step ™, Short Step – High Skid, RH
		X		D350-591-215	Heli-Access-Step ™, Short Step – Low Skid, LH
			X	D350-591-216	Heli-Access-Step ™, Short Step – Low Skid, RH
4	4	4	4	AN4-16A	BOLT

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 164306

JUL 17 2017

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-0-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 09.08.05
CERT. NO.: SH92-6
ISSUE NO.: 11

A	NEW ISSUE	RF	09.08.05
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	NCA	DSI 9472	SHEET 1 OF 2
APPROVED		TITLE	SCALE
DE APPR.		BOLT ADDITION	NTS
DATE	09.08.05	COPYRIGHT © 2009 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

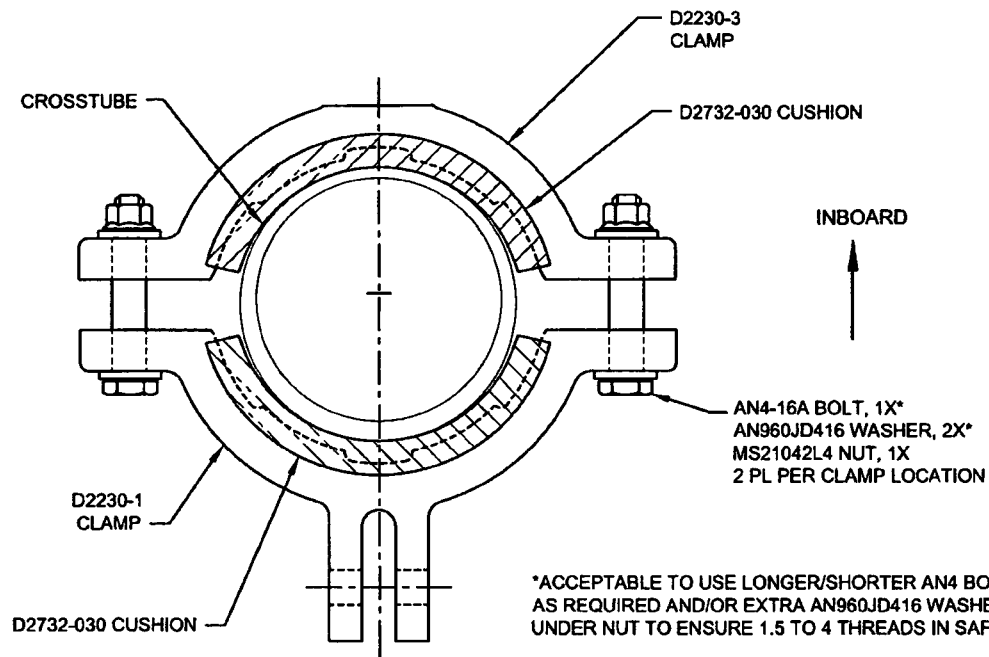


FIGURE 1: CLAMP DETAIL
OPTIONAL CLAMP CONFIGURATION

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 09.08.05
CERT. NO.: SH92-6
ISSUE NO.: 11

DESIGN	<i>GP</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	<i>GP</i>	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9472	SHEET 2 OF 2
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	BOLT ADDITION	NTS
DATE	09.08.05	COPYRIGHT © 2009 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

Work Order ID 164306

164306

Monday, July 17, 2017 10:50:31 AM

Item ID: D350-591-215 Accept *N900040100* Setup Start *NS1*
Revision ID: Stop *NS2*

Item Name: Heli-Access-Step™ LH - Low Gear, Short Step, Aerazur Float Compatible

Start Date: 7/24/2017 Start Qty: 1.00 *1*

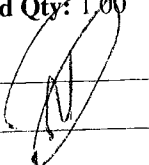
Required Date: 8/3/2017 Req'd Qty: 1.00 *1*

Cust Item ID:

Customer:

Reference:

Run Start *NR1*

Approvals: Process Plan:  Date: JUL 17 2017 Tooling: Date:
QC: Date: SPC (Y/N): Date:

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
DSI9472	A								
IIN-D350-591	H								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile and type labels as per PPP D350-591-215	CHG004							
270	Pick Kit	0.00							
270	Memo	0.01							
Packaging									
Packaging									

DAS
5
9-89

JUL 20 2017



Transport Canada

Transports Canada

Department of Transport

Supplemental Type Certificate

This approval is issued to:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ontario
Canada K6A 1K7

Number: SH92-6**Issue No.:** 11**Approval Date:** February 06, 1992**Issue Date:** February 11, 2009**Responsible Office:**

Ontario

Aircraft/Engine Type or Model:

EUROCOPTER FRANCE AS 350 BA, B, B1, B2, B3, D, D1,
AS 355 E, F, F1, F2, N, NP

Canadian Type Certificate or Equivalent:

H-83
H-87

Description of Type Design Change:

Heli-Access-Step Installation

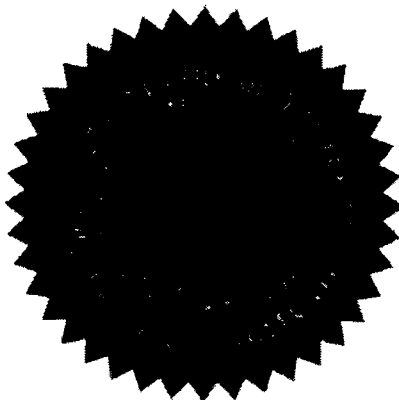
**Installation/Operating Data,
Required Equipment and Limitations:**

Heli-Access-Steps to be manufactured in accordance with Dart Aerospace Ltd. Master Document List MDL-D350-591 Rev. A, dated January 23, 2009, or later Transport Canada approved revision.

Heli-Access-Steps to be installed in accordance with Dart Aerospace Ltd. Installation Instructions D350-591 Rev. G, dated October 6, 2008, or later Transport Canada approved revision.

Heli-Access-Steps to be maintained in accordance with Dart Aerospace Ltd. Instructions for Continued Airworthiness ICA-D350-591 Rev. 2, dated October 6, 2008, or later Transport Canada accepted revision.

-- End --



Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated **will not** adversely affect the airworthiness of the modified product.


Marco Mariotti
For Minister of Transport

Canada

Qty -213	Qty -214	Qty -215	Qty -216	Qty -311	Qty -312	Part Number	Description
X						D350-591-213	<i>Hel-Access-Step™</i> , Short Step – High Skid, LH
	X					D350-591-214	<i>Hel-Access-Step™</i> , Short Step – High Skid, RH
		X				D350-591-215	<i>Hel-Access-Step™</i> , Short Step – Low Skid, LH
			X			D350-591-216	<i>Hel-Access-Step™</i> , Short Step – Low Skid, RH
				X		D350-591-311	<i>Hel-Access-Step™</i> , Long Step – High Skid, LH
					X	D350-591-312	<i>Hel-Access-Step™</i> , Long Step – High Skid, RH
1						D3078-041	STEP ASSEMBLY (HIGH-SHORT, LH)
	1					D3078-042	STEP ASSEMBLY (HIGH-SHORT, RH)
		1				D3168-041	STEP ASSEMBLY (LOW-SHORT, LH)
			1			D3168-042	STEP ASSEMBLY (LOW-SHORT, RH)
				1		D3272-041	STEP ASSEMBLY (HIGH-LONG, LH)
					1	D3272-042	STEP ASSEMBLY (HIGH-LONG, RH)
2	2	2	2	4	4	D2230-3	MOUNTING LUG
2	2	2	2	2	2	D2618	BUSHING
4	4	4	4			D2732-030	CUSHION
				2	2	D2856-400-720	ABRASION STRIP
2	2	2	2	2	2	D3235-1	MOUNTING LUG
				1	1	D3278-041	SUPPORT ASSEMBLY
2	2	2	2	2	2	AN3-35A	BOLT
				8	8	AN4-13A	BOLT
4	4	4	4			AN4-15A	BOLT
2	2	2	2	2	2	AN5-36A	BOLT
4	4	4	4	4	4	NAS1149D0363J	WASHER (AN960JD10)
12	12	12	12	16	16	NAS1149D0463J	WASHER (AN960JD416)
4	4	4	4	4	4	NAS1149D0563J	WASHER (AN960JD516)
2	2	2	2	2	2	MS21042L3	NUT
6	6	6	6	8	8	MS21042L4	NUT
2	2	2	2	2	2	MS21042L5	NUT
				1	1	*DSI 9410-011	STEP MODIFICATION KIT

*DSI 9410-011 Step Modification Kits are provided with all D350-591-311 and D350-591-312 Steps. This kit is provided as an option for the installer and is therefore **NOT REQUIRED** to complete the installation of the D350-591-311 or D350-591-312 Steps. Refer to Figure 15 for installation of the DSI 9410-011 Kit.

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D350-591 REV. G OR EARLIER
AND
INSTRUCTIONS OF CONTINUED AIRWORTHINESS ICA-D350-591 REV. 2 OR EARLIER
REF CANADIAN STC: SH92-6
REF FAA STC: SH967NE

For D350-591-213/-214/-215/-216 steps, customers have the option of installing D2732-030 cushion under the clamps to accommodate varying crosstube diameters and to improve fit, as indicted in Installation Instructions D350-591. This Service Instruction adds longer AN4-16A bolts to the parts list to allow installation of these cushions. See Figure 1 on sheet 2 of this service instruction for reference. Installation of the D2856-400-720 Abrasion Strips per Installation Instructions D350-591 is not required when the cushions are installed.

For D350-591-213/-214/-215/-216 steps at CHG 003, the parts list of D350-591 Rev. G and ICA-D350-591 Rev. 2 is amended as follows:

ADD:

Qty -213	Qty -214	Qty -215	Qty -216	Part Number	Description
X				D350-591-213	<i>Heli-Access-Step</i> ™, Short Step – High Skid, LH
	X			D350-591-214	<i>Heli-Access-Step</i> ™, Short Step – High Skid, RH
		X		D350-591-215	<i>Heli-Access-Step</i> ™, Short Step – Low Skid, LH
			X	D350-591-216	<i>Heli-Access-Step</i> ™, Short Step – Low Skid, RH
4	4	4	4	AN4-16A	BOLT

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 09.08.05
CERT. NO.: SH92-6
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CHECKED		DRAWING NO.	REV. A
MFG. APPR.	NCA	DSI 9472	SHEET 1 OF 2
APPROVED		TITLE	SCALE
DE APPR.		BOLT ADDITION	NTS
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